

# **SAFETY DATA SHEET JULY 2016**

File: E-400 PTA GSA 07-10 **Top Coat Tough Epoxy Coating** 

Pacoima, CA 91331 - USA

Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATIO	N
1.1. Product Identifier: E-400 / E-400X Top Coat (Part A)	
- Product Name: E-400 / E-400X Tough Epoxy Coating / Part	t A
- Product reference: E-400 / E-400X Epoxy Coating Compou	ınd
1.2. Product Use:	
- Epoxy Coating Compound	
1.3. Manufacturer's Name:	1.3.1 Suppliers Name ( if not manufacturer )
CAGE Code: 14439	
Flamemaster Corp.	
Chem Seal Division	
13576 Desmond Street	
Pacoima, CA 91333 – USA	
Technical Contact:	1.4. Emergency Telephone:
Flamemaster Corp.	Chemtrec – Chemtrec International
Tel: 818-890-1401	800-424-9300 ( North America)
Fax: 818-890-6001	703-527-3887 (Outside North America))
www.flamemaster.com	
Specification: AS1129 EPOX	Y COATING / TOP COAT PART A

NSN:	8030-01-067-7586	8030-00-009-5032
INSIN.	E-400 T/C HAZE GREY PINT	E400/E400X T/C WHITE QUART KIT
		,

8030-00-009-5032

8030-01-067-7586

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### Section -2. HAZARD (S) IDENTIFICATION

# OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) CLASSIFICATION OF THE MIXTURE:

FLAMMABLE LIQUID - CATEGORY 2
ASPIRATION HAZARD - CATEGORY 1
ACUTE TOXICITY, ORAL - CATEGORY 4
ACUTE TOXICITY (INHALATION) - CATEGORY 4
CARCINOGENICITY - Category 2
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
SKIN SENSITIZATION - CATEGORY 1
GERM CELL MUTAGENICITY-CATEGORY 2
TOXIC TO REPRODUCTION - CATEGORY 2
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - (NARCOTIC EFFECTS) - CATEGORY 3
SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 2
REPRODUCTIVE TOXICITY, EFFECTS ON OR VIA LACTATION
AQUATIC (CHRONIC) - CATEGORY 4

# GHS LABEL REQUIREMENTS: HAZARD PICTOGRAMS:







#### SIGNAL WORD: DANGER

### **HAZARD STATEMENTS:**

HIGHLY FLAMMABLE LIQUID AND VAPOR - H225

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304

HARMFUL IF SWALLOWED - H302

HARMFUL IF INHALED - H332

SUSPECTED OF CAUSING CANCER - H351

CAUSES SKIN IRRITATION - H315

CAUSES SERIOUS EYE IRRITATION - H319

MAY CAUSE AN ALLERGIC SKIN REACTION - H317

SUSPECTED OF CAUSING GENETIC DEFECTS - H341

SUSPECTED OF DAMAGING FERTILITY. SUSPECTED OF DAMAGING THE UNBORN CHILD - H361fd

MAY CAUSE DROWSINESS OR DIZZINESS - H336

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H373

MAY CAUSE HARM TO BREAST-FED CHILDREN - H362

MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - H413

## In the event of sanding, grinding, or abrading:

H372 Causes damage to organs through prolonged or repeated exposure.

### Hazards Not Otherwise Classified (HNOC):

Sanding and grinding dust may be harmful if inhaled. Sanding and grinding dust may form combustible concentrations in air. Emits toxic fumes when heated.

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#### PRECAUTIONARY STATEMENTS:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children.
- Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes, on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- P301+P310+P331: If swallowed: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
- P305+P351+P338+P315: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice attention.
- P304+P340+P314: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell
- P342+P340+P315: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- P302+P352: If on skin (or in hair): Wash with plenty of soap and water. If skin irritation occurs seek medical attention
- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.
- P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.

### SUPPLEMENTAL LABEL ELEMENTS:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of concentrations above recommended limits causes headaches, drowsiness and nausea and could lead to unconsciousness or possibly death.

irritating to the mucous membranes and may cause the skin to become sensitized.

Avoid any contact with skin or clothing and wash thoroughly after handling.

Emits toxic fumes when heated.

## HAZARDS NOT OTHERWISE CLASSIFIED:

Prolonged or repeated exposure may dry skin and / or cause skin irritation.

Sanding and grinding dust may be harmful if inhaled. Sanding and grinding dust may form combustible concentrations in air.

## In the event of sanding, grinding, or abrading:

H372 Causes damage to organs through prolonged or repeated exposure.

## Section -3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical family: Mixture of organic compounds

For the hazards of the composition, (SDS see Section 2).

## **HAZARDOUS INGREDIENT**

% BY WEIGHT IN PRODUCT-

CAS#-

## **Bisphenol A Epoxy Resin**

FLAMMABLE LIQUID AND VAPOR - H226

67924-34-9

**CAUSES SKIN IRRITATION - H315** MAY CAUSE AN ALLERGIC SKIN REACTION - H317

**CAUSES SERIOUS EYE IRRITATION - H319** 

<70%

MAY CAUSE DROWSINESS OR DIZZINESS - H336

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# **HAZARDOUS INGREDIENT** % BY WEIGHT IN PRODUCT-CAS#-**Propylene Glycol Monomethyl Ether** <70% 107-98-2 FLAMMABLE LIQUID AND VAPOR - H226 **CAUSES SKIN IRRITATION - H315** MAY CAUSE AN ALLERGIC SKIN REACTION - H317 **CAUSES SERIOUS EYE IRRITATION - H319** MAY CAUSE DROWSINESS OR DIZZINESS - H336 **Isobutyl Acetate** <25% 110-19-0 HIGHLY FLAMMABLE LIQUID AND VAPOR - H225 MAY CAUSE DROWSINESS OR DIZZINESS - H336 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS - H412 **Ethylene Glycol Monopropyl Ether** <25# 2807-30-9 FLAMMABLE LIQUID AND VAPOR - H226 HARMFUL IN CONTACT WITH SKIN - H312 **CAUSES SERIOUS EYE IRRITATION - H319 Solvent Naphtha** <25% 64742-89-8 HIGHLY FLAMMABLE LIQUID AND VAPOR - H225 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304 **CAUSES SKIN IRRITATION - H315** MAY CAUSE DROWSINESS OR DIZZINESS - H336 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD - H361 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H373 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS - H411 **Heptane** <25% 142-82-5 HIGHLY FLAMMABLE LIQUID AND VAPOR - H225 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304 **CAUSES SKIN IRRITATION - H315** MAY CAUSE DROWSINESS OR DIZZINESS - H336 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS - H410

## Cyclohexanone

<25% 108-94-1

FLAMMABLE LIQUID AND VAPOR - H226 HARMFUL IF SWALLOWED - H302 HARMFUL IN CONTACT WITH SKIN - H312 HARMFUL IF INHALED - H332 CAUSES SKIN IRRITATION - H315 CAUSES SERIOUS EYE DAMAGE - H318

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Toluene

<5% 108-88-3

**CAUSES SKIN IRRITATION - H315** 

HIGHLY FLAMMABLE LIQUID AND VAPOR - H225

SUSPECTED OF DAMAGING THE UNBORN CHILD - H361d

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H373

MAY CAUSE DROWSINESS OR DIZZINESS - H336

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304

**Glycol Ether EB** 

<10% 111-76-2

Combustible Liquid Causes Skin Irritation Causes Eye Irritation

May Cause Respiratory Irritation

Methyl Isobutyl Ketone

<10%

Highly Flammable Liquid and Vapor Harmful If Inhaled Causes Serious Eye Irritation May Cause Respiratory Irritation

## **Section -4. FIRST-AID MEASURES**

**General:** When in doubt or symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air, if breathing has stopped, administer artificial respiration. Give nothing by mouth, seek immediate medical attention.

**Eye contact:** Check for and remove any contact lenses. Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek immediate medical attention.

**Skin contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use aromatic solvents, thinners or petroleum products.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

May be fatal if swallowed or vomited and enters lungs and/or airways. Never give anything by mouth to an unconscious person.

## **Section -5. FIRE-FIGHTING MEASURES**

## **Extinguishing agents**

**Recommended:** Universal resistant foam, CO2, water, powder.

Agents to avoid: None known

#### Attention

Promptly remove all persons in the event of a fire from the fire area. If safe to do so, remove all containers from fire area as well.

Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.

Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.

Do not weld, flame cut or expose to extreme heat or ignition sources, empty containers which have contained flammable products.

Do not allow run-off from fire fighting to enter drains or water courses.

Emits toxic fumes when heated.

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#### HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:

• Carbon Dioxide

• Unidentified Organic and Inorganic Compounds

• Carbon Monoxide

Toxic Fumes

Carbon Oxides

Smoke

- Halogenated Compounds
- Phenolic Compounds
- Airborn Solids and Liquid Particulates
- Sulfur Oxides

Nitrogen Oxides

- Other Hazardous Materials
- Nitrogen Oxides can react with water vapors to form corrosive nitric acid

In case of inhalation of decomposition products released in a fire, symptoms may be delayed. Exposed persons may need to be kept under medical surveillance for at least 48 hours.

### **Section -6. ACCIDENTAL RELEASE MEASURES**

Eliminate sources of ignition, ventilate the area. Avoid breathing vapors by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.

Collect spill with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.

Clean-up with a detergent/ water mix; avoid use of aromatic solvents. If the product enters drains or watercourses, inform authority with jurisdiction in accordance with state / local regulations.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

## **Section -7. HANDLING AND STORAGE**

#### 7.1 Handling:

No smoking, eating and drinking during handling.

Avoid exposure during pregnancy/while nursing.

Keep containers tightly closed. Prior to movement containers which are opened should be carefully resealed.

Avoid skin and eye contact. Avoid inhalation in case of exposure to vapor and spray mist.

Handle and open containers with care to avoid spilling of contents. Never use pressure to empty; container is not a pressure vessel. Clean or discard contaminated clothing and shoes.

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

Use in areas from which local sources of ignition have been excluded. Electrical equipment including lighting should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools are recommended.

#### 7.2 Storage:

Observe label precautions. Store between 32/F and 95/F ( 0/C and 35/C ) in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight. For flash points below 23 °C store in an area constructed to the appropriate standard

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 Engineering measures:

Avoid the inhalation of vapors, spray mist and particulates. Achieve by local exhaust ventilation providing good general extraction as to keep air-borne concentration below the Occupational Exposure Limits (OEL).

If local / area ventilation is not sufficient to comply with OEL, suitable (NIOSH) respiratory protection to be provided. Always provide suitable (NIOSH) respiratory protection when sanding, grinding or otherwise abrading cured material.

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## Work place exposure limits (8 hour)

OSHA	PRODUCT	ACGIH
N/A	Propylene Glycol Monomethyl Ether	50 ppm 8 hours
150 ppm	Isobutyl Acetate	150 ppm
200 ppm	Toluene	20 ppm
25 ppm	Glycol Ether EB	20 ppm
500 ppm	Solvent Naphtha	N/A
500 ppm	Heptane	400 ppm
N/A	Cyclohexanone  Mothyl Isobytyl Kotono	20 ppm
50 ppm	Methyl Isobutyl Ketone	20 ppm

## 8.3 Personal protection

All Personal Protective Equipment, including Respiratory Protection, used to control exposure to hazardous substances must be selected to meet the requirements of OSHA Regulations.

## **Respiratory protection:**

Appropriate respiratory protection equipment should be selected according to the type of contaminants, following regulatory (OSHA / NIOSH) and manufacturers instructions including proper fitting of devices.

## Hand protection:

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

## Eye protection:

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

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## Skin protection:

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

• Physical state at: 68 º F (20 º C) Liquid

• Flash point: 40 Deg. F --- 5 Deg. C Method: TCC

• Specific gravity at: 68 ° F (20 ° C) N/A

• Vapor Density: N/A

• Lower Explosive Limit-N/A

•Upper Explosive Limit-N/A

• Miscibility in water at 20 º C: Slight

• VOC : N/A

• Ph : N/A

Volatile % by volume: N/A

• Vapor pressure at: 68 º F (20 º C) N/A

• Color: Clear Solution

Appearance: Viscous FluidOdor: Alcohol/Ketone Odor

• Boiling Point: N/A

• Material Supports Combustion : Yes

### 10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see SDS section 7). In case of combustion, may produce hazardous decomposition products such as:

HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:

• Carbon Dioxide

• Carbon Monoxide

• Carbon Oxides

• Halogenated Compounds

• Airborn Solids and Liquid Particulates

• Nitrogen Oxides

• Unidentified Organic and Inorganic Compounds

• Toxic Fumes

Smoke

• Phenolic Compounds

• Sulfur Oxides

• Other Hazardous Materials

• Nitrogen Oxides can react with water vapors to form corrosive nitric acid

In case of inhalation of decomposition products released in a fire, symptoms may be delayed. Exposed persons may need to be kept under medical surveillance for at least 48 hours.

## 11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. See (SDS Sections 3 and 15) for details.

Exposure to component solvents vapors at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms and signs of overexposure include headache, dizziness, fatigue, muscular weakness, drowsiness, reduced fetal weight, increase in fetal deaths, skeletal malformations, and in extreme cases loss of consciousness Repeated or prolonged contact with the preparation may cause Defatting of the skin resulting in non-allergic dermatitis and absorption through the skin.

The liquid splashed in the eyes causes serious eye irritation and damage.

Irritating to mouth, throat and stomach. Ingestion causes reduced fetal weight, increased fetal deaths and skeletal malformations

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## **ACUTE TOXICITY:**

	PR	ODUCT	
ENDPOINT	SPECIES	DOSE	EXPOSURE
	Bisphenol	A Epoxy Resin	
LD50 Dermal	Rat	>2,000 mg/kg	-
LD50 ORAL	Rat	>2,000 mg/kg	-
	Propylene G	lycol Monomethyl Ether	
LD50 ORAL	Rat	4016 mg/kg	-
LC50 Inhalation Vapor	Rat	>7000 ppm	-
LD50 Dermal	Rat	>2000 ppm	-
	Isobuty	/I Acetate	
LD50 ORAL	Rat	13413 mg/kg	-
LD50 Dermal	Rabbit	>17400 mg/kg	-
	Ethylene Gly	col Monopropyl Ether	
LD50 Oral	Rat	3089 mg/kg	-
LC50 Inhalation Vapor	Mouse	1530 ppm	-
LD50 Dermal	Rabbit	1337 mg/kg	-
	Solvent	Naphtha	
LD50 ORAL	Rat	>5.00 mg/kg	-
LC50 Inhalation Vapor	Rat	>20 mg/l	-
LD50 Dermal	Rabbit	>2.00 mg/kg	
	Hepta	ane	
LC50 Inhalation Vapor	Rat	103,000 mg/m³	4 Hours
	Cyclohe	xanone	
LD50 ORAL	Rat	1534 mg/kg	-
LC50 Inhalation Vapor	Rat	6.2 mg/l	4 Hours
LD50 Dermal	Rabbit	794-3160 mg/kg	-
	Toluene	2	
LD50 ORAL	Rat	2600mg/kg	-
LD50 Dermal	Rabbit	12000 mg/kg	-
LC50 Inhalation Vapor	Rat	12.5 mg/l	4 hour

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**CORROSION / IRRITATION** 

PRODUCTSPECIESRESULTPropylene Glycol Monomethyl EtherRabbitEyes-Non-IrritantRabbitSkin-Non-IrritantEthylene Glycol Monopropyl EtherRabbitEyes- Irritant

Rabbit Skin-Non Irritant

Solvent Naphtha - Eyes - Irritant - Skin - Irritant

Cyclohexanone Rabbit Serious Eye damage

Rabbit Skin - Irritant

Sensitizer:

**PRODUCT:** 

ROUT OF EXPOSURE SPECIES RESULT

**Propylene Glycol Monomethyl Ether** 

Skin Guinea Pig Not Sensitizing

Isobutyl Acetate

Skin Not Sensitizing

**Ethylene Glycol Monopropyl Ether** 

Skin Guinea Pig Not Sensitizing

## **CARCINOGENICITY:**

Bisphenol A Epoxy Resin - No Known Significant Effects or Critical Hazards Propylene Glycol Monomethyl Ether - No Known Significant Effects or Critical Hazards

## **MUTAGENICITY:**

Bisphenol A Epoxy Resin - No Known Significant Effects or Critical Hazards
Propylene Glycol Monomethyl Ether - No Known Significant Effects or Critical Hazards
Isobutyl Acetate - Negative
Cyclohexanone - Laboratory experiments have shown mutagenic effects

## TERATOGENICITY:

Bisphenol A Epoxy Resin - No Known Significant Effects or Critical Hazards
Propylene Glycol Monomethyl Ether - No Known Significant Effects or Critical Hazards

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## **Developmental Effects:**

Bisphenol A Epoxy Resin - No Known Significant Effects or Critical Hazards

Propylene Glycol Monomethyl Ether - No Known Significant Effects or Critical Hazards

Solvent Naphtha - Suspected of damaging fertility or the Unborn Child

## **Fertility Effects:**

Bisphenol A Epoxy Resin - No Known Significant Effects or Critical Hazards

Propylene Glycol Monomethyl Ether - No Known Significant Effects or Critical Hazards

## SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)

1-methoxy-2-propanol - Category 3 - Narcotic Effects

Solvent Naphtha - Category 3 - Narcotic Effects

Heptane - Category 3 - Narcotic Effects

Cyclohexanone - Acute Inhalation Toxicity - Breathing Difficulties

TARGET ORGANS: BRAIN, BLOOD, KIDNEYS, LUNGS, REPRODUCTIVE SYSTEM, LIVER, HEART, PERIPHERAL NERVOUS SYSTEM, GASTROINTESTINAL TRACT, UPPER RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, NERVOUS SYSTEM, EYE, LENS AND/OR CORNEA

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304

**HARMFUL IF SWALLOWED - H302** 

HARMFUL IF INHALED - H332

SUSPECTED OF CAUSING CANCER - H351

**CAUSES SKIN IRRITATION - H315** 

**CAUSES SERIOUS EYE IRRITATION - H319** 

MAY CAUSE AN ALLERGIC SKIN REACTION - H317

SUSPECTED OF CAUSING GENETIC DEFECTS - H341

SUSPECTED OF DAMAGING FERTILITY. SUSPECTED OF DAMAGING THE UNBORN CHILD - H361fd

MAY CAUSE DROWSINESS OR DIZZINESS - H336

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H373

MAY CAUSE HARM TO BREAST-FED CHILDREN - H362

#### **ASPIRATION HAZARD:**

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS

## 12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself. Do not allow the product to enter drains or water ways. See (SDS Sections 3 and 15)

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

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RESULT	PRODUCT SPECIES	EXPOSURE
	Propylene Glycol Monomethyl Ether	
EgC50 ->1000 - mg/l	Algae	7 days Static
IC50 - >1000mg/l	Bacteria	3 Hours Static
LC50 - 23300 mg/l	Daphnia Magna	48 Hours Static
LC50 ->1000 mg/l	Fish	96 Hours Static
	Isobutyl Acetate	
LC50 - 17mg/l	Oryzias Latipes	96 Hours
EC50 - 25 mg/l	Daphnia Magna	48 Hours
EC50 - 370 mg/l	Pseudokirchneriella Subcapitata	72 Hours
	Ethylene Glycol Monopropyl Ether	
LC50 Static >5000 mg/l	Pimephales Promelas	96 Hours
LC50 Static >5000 mg/l	Daphnia Magna	48 Hours
EC50 Static >100 mg/l	Pseudokirchneriella Subcapitata	72 Hours
	Heptane	
LC50 - 4 mg/l	Carassius Auratus	24 Hours
LC50 - 375 mg/l	Tilapia Mossambica	96 Hours
EC50 - 1.5 mg/L	Daphnia Magna	48 Hours
	Cyclohexanone	
EC50 - 820 mg/l	Daphnia Magna	24 Hours
	Toluene	
LC50 6.26-8.4 mg/l	Rainbow Trout	24 hours
LC50 6.97-8.62 mg/l	Salmon	24 hours
LC50 7.45-8.75 mg/l	Salmon	24 hours
LC50 80 mg/l	Medaka	24 hours
	Glycol Ether EB	
LC50 1575 mg/l	Carp	48 Hours
LC50 1720 mg/l	Daphnia Magna	24 Hours
	Methyl Isobutyl Ketone	
LC50 672 mg/l	Carp	48 Hours
EC50 4280 mg/l	Daphnia Magna	24 Hours

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### PERSISTANCE AND DEGRADABILITY:

**PRODUCT** 

TEST PERIOD RESULT

**Bisphenol A Epoxy Resin** 

OECD 301F 28 DAYS 5%

**Isobutyl Acetate** 

OECD 301D 20 DAYS 81% - Readily Biodegradable

**PRODUCT** 

AQUATIC HALF LIFE PHOTOLYSIS BIODEGRADABILITY

**Bisphenol A Epoxy Resin** 

Fresh water 3.58 days - Not Readily

Bisphenol A Epoxy Resin - Not Readily Biodegradable

**Bioaccumulative Potential:** 

Product / Ingredient LogP(ow) BCF Potential

Bisphenol A Epoxy Resin - 31 low

Propylene Glycol Monomethyl Ether 0.43 0.25 low

Heptane Indication of Bioaccumulation Potential

Toluene Partition Coefficient - 2.65

Mobility in Soil: Not Available

## 13. DISPOSAL CONSIDERATIONS

Recommended incineration or land fill as hazardous waste per Federal, State and local regulations.

React with curing agent and dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill.

Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

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14. TRANSPORT INFORMATION

**DOT: § 172.101 HAZARDOUS MATERIALS TABLE** 

UN Number: 1263

**Proper Shipping Name: Paint Related Material** 

Labels: Flammable Liquid

UN Number: 1263

Proper Shipping Name: Paint Related Material

Labels: Flammable Liquid Hazard Class: 3 Subclass: NO

Packaging Group: II

Passenger Air Packing Instruction: 355 Passenger aircraft: 60 Liter (16 gallon) Cargo Air Packing Instruction: 366 Cargo aircraft only: 220 Liter (58 gallon)

Hazard Class: 3 Subclass: NO

Packaging Group: II

Limited Quantity: Passenger aircraft: 10 Liter (2.64 Gallons)

Cargo aircraft only: 220 Liter (58 gallon)

Vessel stowage: A

ERG: 128

NMFC 4620 sub.5-CL.60 Schedule B # 3506.91.0000 IMDG:

IATA:

UN Number: 1263

Proper Shipping Name: Paint Related Material

Label: 3

Hazard Class: 3 Subclass: NO

Packaging Group: II EMS No: F, E - S, D

## 15. REGULATORY INFORMATION

US Regulations Federal

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chemical (s) subject to the reporting	Ţ
requirements of section 313 of Title III	i

•	eguiations reueral				
ſ	chemical (s) subject to the reporting	Chemical Name	CAS No	Weight %	Threshold limit
i	requirements of section 313 of Title III				(Reporting Value)
į	and of 40 CFR 372 (SARA)				i   
į					
!					
ĺ		MIBK	108-10-1	<10%	unknown
į		TOLUENE	108-88-3	<5%	unknown
į					     

SARA notifications must remain attached to this SDS. Any copies and /or distribution of this SDS must include all SARA notifications.

All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

United States: Sara 302/304 (Sara 304 RQ): Not Applicable

Information On Ingredients: None Were Found

Sara 311/312

Classification: Fire Hazard, Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our Page 14 of 17 knowledge.

## **US Regulations State**

Propylene Glycol Monomethyl Ether	Pennsylvania	(RTK)	- Listed
Isobutyl Acetate	Massachusetts	(RTK)	- Listed
	Pennsylvania	(RTK)	- Listed
	New Jersey	(RTK)	- Listed
Ethylene Glycol Monopropyl Ether	Pennsylvania	(RTK)	- Listed
	New Jersey	(RTK)	- Listed
Heptane	Massachusetts	(RTK)	- Listed
	Pennsylvania	(RTK)	- Listed
	New Jersey	(RTK)	- Listed
Cyclohexanone	Massachusetts	(RTK)	- Listed
	Pennsylvania	(RTK)	- Listed
	New Jersey	(RTK)	- Listed
Toluene	California Propo	sition 65	G (RTK) - Listed
	(Developmenta	l Female)	
	New Jersey	(RTK)	- Listed
	Massachusetts	(RTK)	- Listed
	Pennsylvania	(RTK)	- Listed
Glycol Ether EB	New Jersey	(RTK)	- Listed
	Massachusetts	(RTK)	- Listed
	Pennsylvania	(RTK)	- Listed
	Rhode Island	(RTK)	- Listed

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## **Methyl Isobutyl Ketone**

California Proposition 65 (RTK) - Listed

(Developmental Female)

New Jersey (RTK) - Listed

Massachusetts (RTK) - Listed

Pennsylvania (RTK) - Listed

Rhode Island (RTK) - Listed

## California Prop. 65: Warning

This product contains a chemical or chemicals known by the state of California to cause cancer, birth defects, or other reproductive harm.

### Canada



Class B - Flammable

TOLUENE
Glycol Ether EB
Methyl Isobutyl Ketone
Bisphenol A Epoxy Resin
Propylene Glycol Monomethyl Ether



Class D - Poisonous and Infectious materials Division 2: Materials Causing Other Toxic Effects D2A D2B

Glycol Ether EB
Propylene Glycol Monomethyl Ether
TOLUENE
Bisphenol A Epoxy Resin

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Listed National Pollutant Release Inventory (NPRI):

Propylene Glycol Monomethyl Ether

Toluene

Glycol Ether EB Bisphenol A Epoxy Resin Methyl Isobutyl Ketone

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## **16. OTHER INFORMATION**

HEALTH	2	
FLAMMABILITY	3	
REACTIVITY	0	

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0
	0

Customer and / or end user is responsible for determining PPE

Conversion to ANSI format

NFPA HMIS

Preparer: Flamemaster / Compliance

Rev-A 4/20/2015

Supersedes (conversion)

Containers: plastic jars, metal cans

cartridge kits

Limited Quantity See SDS Section 14

Maximum container size 50 Gallons / 190 Liters

## Notice to reader:

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Revision Notes: A

In all cases, the user must determine the applicability of all information and recommendations contained herein as well as the suitability of this product for their own particular needs or purposes.

This product may be hazardous and should always be used with care and discretion. Every effort has been made to describe all known hazards, but this in no way guarantees the above mentioned hazards are the only hazards present.

Flamemaster Corporation, its Affiliates and its Agents, shall in no way be held liable for any damages resulting from handling, using, storing, disposing of, or from contact with this product. User assumes all risk.

**End of Safety Data Sheet** 

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

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